

OIPE

RAW SEQUENCE LISTING DATE: 06/06/2002 PATENT APPLICATION: US/10/017,066A TIME: 14:37:38

Input Set : D:\51158-20024.txt

Output Set: N:\CRF3\06062002\J017066A.raw

Does Not Comply Corrected Diskette Needed

•	4	<110>	APPL	CANT	: Ar	thur	В.	Rait	ano								
	5		Danie	el E.	H. A	far										γ.	-au) .
	6		Aya 3	Takob	ovit	S											
	7		Mary	Fari	S												
	8		Rene	S. H	uber	t											
	9		Steve	e Cha	ppel	1 Mi	tche	11									
	10		Dougl	as C	. Sa	ffra	n										
	12	<120>	TITLE	OF	INVE	NTIO	N: N	OVEL	G P	ROTE	IN-C	OUPL	ED R	ECEP	TOR		
	13		UP-RE							ER A	ND U	SES	THER	EOF			
		<130>															
. 1		<140>									/017	,066	A				*
(Obe->		<141>															
		<150>										28				- 1151	7
		<del>&lt;150&gt;</del>													<del></del> -	7 21517	
M>		<150>									902					•	
		<151>							0-05								
		<160>															
		<170>				tseQ	for	Win	dows	Ver	sion	4.0					
		<210>															
		<211>	_	-	136												
		<212>														•	
		<213>			Hom	o Sa	pien	s									
		<220>															
		<221>	•														
		<222>				3)	. (10	83)			•						
		<400>															
																acaaag	. 60
																cagttc	120
		agette	ttca	_					_	-	_					ca tac	171
	44					al A	sp P		_	TA Y	sn G	Lu S			la T	hr Tyr	
	45	+++			l 				5					10		A. A	010
		ttc at															219
	49	Phe Il	е ьеи 5	rre	GTÄ	Leu		GTA	ьeu	GIU	GIU		GIN	Pne	Trp	Leu	
				++~	+	+	20	+		-++	~	25	~+~			***	267
		gcc tt Ala Ph															267
	53	30	e PIO	Leu	Cys	35	ьeu	TAT	ьeu	TTG	40	Val	Leu	СТА	ASII	ьеи 45	
		aca at	o ato	tac	2++		cac	act	~~~	020		at a	ca+	~~~	000		315
		Thr Il															313
	57	*11T T1	е тте	тут	50	val	wrd	TIII	GIU	55	Set	ьец	птѕ	GIU	60	Mer	
		tat at	a ttt	ctt		ato	ctt	t c =			as c	ato	oto	ato		200	363
		Tyr Il															303
	61	-11	C, FIIC	65	Cys	11C C	Deu	261	70	116	пэр	116	neu	75	Set	TIIT	
	- T			0.5					, 0					, 5			

RAW SEQUENCE LISTING DATE: 06/06/2002 PATENT APPLICATION: US/10/017,066A TIME: 14:37:38

Input Set : D:\51158-20024.txt

																act		411
	64 65	ser	Ser	Met 80	Pro	Lys	Met	Leu	A1a 85	Ile	Phe	Trp	Phe	Asn 90	Ser	Thr	Thr	
		atc	саσ		σat	act	tat	cta		саσ	att	+++	acc		cac	tcc	++>	459
																Ser		433
	69		95				-1-	100					105			001	LCu	
	71	tct	ggc	atg	gaa	tcc	aca	gtg	ctg	ctg	gcc	atg		ttt	gac	cgc	tat	507
																Arg		
		110					115					120			_	_	125	
																ttg		555
		Val	Ala	Ile	Cys		Pro	Leu	Arg	His		Thr	Val	Leu	Thr	Leu	Pro	
	77 70					130			_		135		_			140		
	79	cgt	gtc	acc	aaa	att	ggt	gtg	gct	gct	gtg	gtg	cgg	ggg	gct	gca	ctg	603
	8U 81	Arg	vaı	Thr		тте	GTÄ	vaı	Ala		vaı	Val	Arg	GTA		Ala	Leu	
		2 ± 4	~~~	000	145	aat	~+ a	++0	2+0	150	~~~	a+ a		++-	155			<b>651</b>
	8 <i>I</i> I	acy Mot	y Ca Ala	Dro	LOU	Dro	Val	Dho	Tlo	Tuc	Cln	Lou	Dro	Dho	Cyra	cgc Arg	Com	651
	85	Mec	AIG	160	пец	FIO	var.	rne	165	пуз	GIII	Leu	PIO	170	Cys	AIG	ser	
		aat	atc		tcc	cat	tee	tac		cta	cac	caa	αat		atα	aag	cta	699
																Lys		0,5,5
	89		175					180	1				185			-1-		
	91	gcc	tgt	gat	gat	atc	cgg	gtc	aat	gtc	gtc	tat	ggc	ctt	atc	gtc	atc	747
																val		
		190					195					200					205	
																tat		795
		Ile	Ser	Ala	Ile		Leu	Asp	Ser	Leu		Ile	Ser	Phe	Ser	Tyr	Leu	
	97	_44				210					215					220		
																gcc		843
	101	Leu	116	ьеu	. дуз 225		val	. Leu	. сту	230		Arg	GIU	l Ala	235		Lys	
		αса	+++	aac			ato	tet	cat			act	ata	. ++0			: tat	891
-	104	Ala	Phe	Glv	Thr	Cvs	Val	Ser	His	. ycy : Val	Cvs	Δla	Val	Dho	Tle	Dho	Tyr	
	105			240		0,0	, 4.		245		0,5	1114	· vui	250		. 1110	. IYI	
-	107	gta	cct	ttc	att	gga	ttg	tcc	atq	qtq	cat	cqc	ttt			caa	cgt	939
																	Arg	
	L09		255					260					265		-	_	_	
																	cct	987
. ]	112	Asp	Ser	Pro	Leu	Pro	Val	Ile	Leu	Ala	Asn	Ile	Tyr	Leu	Leu	Val	Pro	
		270					275					280					285	
1	L15	cct	gtg	ctc	aac	cca	att	gtc	tat	gga	gtg	aag	aca	aag	gag	att	cga	1035
		Pro	Val	Leu	Asn		Ile	Val	Tyr	Gly		Lys	Thr	Lys	Glu		Arg	
	17					290					295					300		
																	ccc	1083
7	.20	GIn	Arg	ire		Arg	Leu	Phe	His		Ala	Thr	His	Ala			Pro	
	.21	+ > ~	~+ ~+.	aa.a	305		~+ +		<b>.</b>	310			_4_	_ 4.4	315			
																	aatgtt	1143
1	25	cett	autt teas	eyy (	aayd tass	agti	at t	caya	aadd aa+c	a adi	∟∟[C a+++	CLEA	ata	aaaa	atā +++	caac	tcagat ctttgt	1203
1	26	+++	ctta	cta :	catat	taat	yı l' ha t	9999°	acco	t orac	utte.	atta	444	alld ++~~	aaa	atta	ttactt	1263
1	. 2 0		LLLY	cca .	cald	Laal	ıa ı	caat	accc	L ya	ccag	yılğ	Lyg	LLGG	ayy	yıta	LLACTT	1323

RAW SEQUENCE LISTING DATE: 06/06/2002 PATENT APPLICATION: US/10/017,066A TIME: 14:37:38

Input Set : D:\51158-20024.txt

```
127 ttcattttac catgcagtcc aaatctaaac tgcttctact gatggtttac agcattctga
                                                                       1383
128 gataaqaatg gtacatctag agaacatttg ccaaaggcct aagcacggca aaggaaaata
                                                                       1443
129 aacacaqaat ataataaaat gagataatct agcttaaaac tataacttcc tcttcagaac
                                                                       1503
130 toccaaccac attggatete agaaaaatge tgtetteaaa atgaetteta cagagaagaa
                                                                       1563
131 ataatttttc ctctggacac tagcacttaa ggggaagatt ggaagtaaag ccttgaaaag
                                                                       1623
132 agtacattta cctacgttaa tgaaagttga cacactgttc tgagagtttt cacagcatat
                                                                       1683
133 ggaccctgtt tttcctattt aattttctta tcaacccttt aattaggcaa agatattatt
                                                                       1743
134 agtaccetca ttgtagecat gggaaaattg atgtteagtg gggateagtg aattaaatgg
                                                                       1803
135 gqtcatacaa gtataaaaat taaaaaaaaa aaagacttca tgcccaatct catatgatgt
                                                                       1863
136 ggaagaactg ttagagagac caacagggta gtgggttaga gatttccaga gtcttacatt
                                                                       1923
137 ttctagagga ggtatttaat ttcttctcac tcatccagtg ttgtatttag gaatttcctg
                                                                        1983
138 gcaacagaac tcatggcttt aatcccacta gctattgctt attgtcctgg tccaattgcc
                                                                        2043
                                                                       2103
139 aattacctgt gtcttggaag aagtgatttc taggttcacc attatggaag attcttattc
                                                                        2163
140 agaaagtctq catagggctt atagcaagtt atttattttt aaaagttcca taggtgattc
                                                                        2223
141 tqataqqcaq tqaqqttaqq qagccaccag ttatgatggg aagtatggaa tggcaggtct
142 tqaaqataac attqqccttt tgaqtgtgac tcgtagctgg aaagtgaggg aatcttcagg
                                                                       2283
143 accatecttt attteggget ttegtecagta tegaacageg actttegagac cageaaagca
                                                                       2343
144 atctgactta ggcatgggaa tcaggcattt ttgcttctga ggggctatta ccaagggtta
                                                                        2403
145 ataggtttca tcttcaacag gatatgacaa cagtgttaac caagaaactc aaattacaaa
                                                                       2463
146 tactaaaaca tgtgatcata tatgtggtaa gtttcatttt ctttttcaat cctcaggttc
                                                                       2523
                                                                       2583
147 cctqatatqq attcctataa catqctttca tccccttttq taatqqatat catatttgga
148 aatgcctatt taatacttgt atttgctgct ggactgtaag cccatgaggg cactgtttat
                                                                       2643
149 tattgaatgt catctctgtt catcattgac tgctctttgc tcatcattga atcccccagc
                                                                       2703
150 aaagtgoota gaacataata gtgottatgo ttgacacogg ttatttttca tcaaacotga
                                                                       2763
151 ttccttctgt cctgaacaca tagccaggca attttccagc cttctttgag ttgggtatta
                                                                       2823
                                                                       2883
152 ttaaattctg gccattactt ccaatgtgag tggaagtgac atgtgcaatt tctatacctg
153 gctcataaaa ccctcccatg tgcagccttt catgttgaca ttaaatgtga cttgggaagc
                                                                       2943
                                                                       3003
154 tatgtgttac acagagtaaa tcaccagaag cctggatttc tgaaaaaact gtgcagagcc
155 aaacctctgt catttgcaac tcccacttgt atttgtacga ggcagttgga taagtgaaaa
                                                                       3063
3123
                                                                       3136
157 aaaaaaaaaa aaa
159 <210> SEQ ID NO: 2
160 <211> LENGTH: 317
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo Sapiens
164 <400> SEOUENCE: 2
165 Met Val Asp Pro Asn Gly Asn Glú Ser Ser Ala Thr Tyr Phe Ile Leu
166
167 Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe Pro
168
               20
169 Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile Ile
                               40
171 Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile Phe
                           55
172
173 Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser Met
175 Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe
176
                   85
                                       90
177 Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu Ser Gly Met
```

RAW SEQUENCE LISTING DATE: 06/06/2002 PATENT APPLICATION: US/10/017,066A TIME: 14:37:38

Input Set : D:\51158-20024.txt

178				100					105					110		
		Ser	Thr		T.e.u	Len	Ala	Met	Ala	Phe	Asp	Ara	Tvr		Ala	Tle
180	OIU	JCI	115	, 41	Deu	шси		120		1 110		9	125	,		
	Cvs	His		T.eu	Ara	His	Ala		Val	Leu	Thr	Leu		Ara	Val	Thr
182	0,10	130			5		135					140		3		
	Lvs		Glv	Val	Ala	Ala		Val	Arg	Gly	Ala	Ala	Leu	Met	Ala	Pro
	145		1			150	•		5		155					160
		Pro	Val	Phe	Ile	Lys	Gln	Leu	Pro	Phe	Cys	Arg	Ser	Asn	Ile	Leu
186					165	•				170					175	
	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Cys	Asp
188				180	-				185					190	_	_
189	Asp	Ile	Arg	Val	Asn	Val	Val	Tyr	Gly	Leu	Ile	Val	Ile	Ile	Ser	Ala
190	_		195					200	_				205			
191	Ile	Gly	Leu	Asp	Ser	Leu	Leu	Ile	Ser	Phe	Ser	Tyr	Ĺeu	Leu	Ile	Leu
192		210					215					220				
193	Lys	Thr	Val	·Leu	Gly	Leu	Thr	Arg	Glu	Ala	Gln	Ala	Lys	Ala	Phe	Gly
194	225					230					235					240
195	Thr	Cys	Val	Ser	His	Val	Cys	Ala	Val	Phe	Ile	Phe	Tyr	Val	Pro	Phe
196					245			•		250					255	
197	Ile	Gly	Leu	Ser	Met	Val	His	Arg	Phe	Ser	Lys	Arg	Arg	Asp	Ser	Pro
198				260					265					270		
199	Leu	Pro	Val	Ile	Leu	Ala	Asn	Ile	$\mathtt{Tyr}$	Leu	Leu	Val	Pro	Pro	Val	Leu
200			275					280					285			_
201	Asn		Ile	Val	Tyr	Gly		Lys	Thr	Lys	Glu		Arg	Gln	Arg	Ile
202		290				_	295					300				
		Arg	Leu	Phe	His		Ala	Thr	His	Ala		GLu	Pro			
	305				•	310					315					
	<210															
	<213				20				•						•	
	<212				Dot	Dmod										
	<213				_	Pro	rern									
	<400					Dho	Thr	Uic	Ala	Thr	Dha	Mot	LAII	Tla	Glv	Tla
212		261		Cys		Pile	1111	птэ	мта	10	rne	Mec	цец	116	15	116
		G1 v				Δla	Hic	Dho	Trp	44*	G1v	Dhe	Pro	T.eu		Ser
215	FIO	GLY		20	GIU	nia	1113	rne	25	1110	OLY	1110	110	30	LCu	DCI
	Met				Δla	Len	Phe	Glv	Asn	Cvs	Tle	Val	Va 1		Tle	Va1
217	HCC	- 1 -	35	141		БСС	1	40		0,10		,	45			
	Ara	Thr		Arσ	Ser	Leu	His		Pro	Met.	Tvr	Leu		Leu	Cvs	Met.
219		50	014	5	502		55				-1-	60			-1-	
	Len		Ala	Ile	Asp	Leu		Leu	Ser	Thr	Ser		Met	Pro	Lvs	Ile
221					112F	70					75				-4-	80
		Ala	Leu	Phe	Trp		Asp	Ser	Arg	Glu	Ile	Thr	Phe	Asp	Ala	Cys
223					85				-	90				-	95	-
							<b>-1</b> -	uic	λla		Ser	<b>λ1</b> a	т1 -	a1	_	_,
224	Leu	Ala	Gln	Met	Phe	Phe	тте	urs	ALG	цеu		Ада	тте	GIU	Ser	Thr
224 225	Leu	Ala	Gln	Met 100	Phe	Phe	iie	птэ	105	пеп	DCI	ALG	тте	110	Ser	Thr
225				100										110		
225				100					105					110		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/017,066A

DATE: 06/06/2002
TIME: 14:37:38

Input Set : D:\51158-20024.txt

229		130					135					140				
	Met		Ala	Leu	Val	Arq	Gly	Ser	Leu	Phe	Phe	Phe	Pro	Leu	Pro	Leu
	145					150	-				155					160
		Ile	Lys	Arg	Leu	Ala	Phe	Cys	His	Ser	Asn	Val	Leu	Ser	His	Ser
233					165					170					175	
234	Tyr	Cys	Val	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Tyr	Thr	Asp	Thr	Leu
235	_			180					185					190		
236	Pro	Asn	Val	Val	Tyr	Gly	Leu	Thr	Ala	Ile	Leu	Leu	Val	Met	Gly	Val
237			195					200					205			
238	Asp	Val	Met	Phe	Ile	Ser	Leu	Ser	Tyr	Phe	Leu	Ile	Ile	Arg	Ala	Val
239		210					215					220				
240	Leu	Gln	Leu	${\tt Pro}$	Ser	Lys	Ser	Glu	Arg	Ala		Ala	Phe	Gly	Thr	
241	225					230					235		•		_	240
242	Val	Ser	His	Ile		Val	Val	Leu	Ala		Tyr	Val	Pro	Leu		Gly
243					245					250			_		255	
244	Leu	Ser	Val		His	Arg	Phe	Gly		Ser	Leu	Asp	Pro	Ile	vaı	HlS
245				260			_	_	265	_	_		**- 1	270	3	D
246	Val	Leu		Gly	Asp	Val	Tyr		Leu	Leu	Pro	Pro		Ile	Asn	PIO
247			275			_	_,	280	<b>a</b> 3	<b>~1</b> .	<b>3</b>	m1	285	17-1	T 0	7 l n
	Ile		Tyr	GLY	Ala	Lys		rys	GIn	тте	Arg		Arg	Val	ьeu_	Ald
249		290		<b>~1</b> -	<b>a</b>	C	295	T a	7.00	т1 о	C111	300	C117	C117	λen	Thr
		Pne	ьуs	ше	ser		ASP	гаг	ASP	116	315	нта	СТУ	Gly	ASII	320
	305	٠. ۵	- TI			310					313					320
	<210															
				H: 32	20	•										
255	<212	2> T	YPE:	PRT		n Sai	ni en e	a								
255 256	<212 <212	2> T 3> Ol	YPE: RGAN	PRT ISM:	Homo	o Saj	piens	S								
255 256 258	<213 <213 <40	2> T: 3> 01 0> S1	YPE: RGANI EQUEI	PRT ISM: NCE:	Homo				Ala	Thr	Cys	Val	Leu	Ile	Gly	Ile
255 256 258 259	<213 <213 <400 Met	2> T: 3> 01 0> S1	YPE: RGANI EQUEI	PRT ISM: NCE:	Homo 4 Asn				Ala	Thr	Cys	Val		Ile		Ile
255 256 258 259 260	<213 <213 <400 Met	2> T 3> 01 0> S1 Ser	YPE: RGANI EQUEI Ser	PRT ISM: NCE: Cys	Homo 4 Asn 5	Phe	Thr	His		10					15	
255 256 258 259 260 261 262	<213 <213 <400 Met 1 Pro	2> T: 3> O! 0> S! Ser Gly	YPE: RGANI EQUEI Ser Leu	PRT ISM: NCE: Cys Glu 20	Homo 4 Asn 5 Lys	Phe Ala	Thr His	His Phe	Trp 25	10 Val	Gly	Phe	Pro	Leu 30	15 Leu	Ser
255 256 258 259 260 261 262	<213 <213 <400 Met 1 Pro	2> T: 3> O! 0> S! Ser Gly	YPE: RGANI EQUEI Ser Leu	PRT ISM: NCE: Cys Glu 20	Homo 4 Asn 5 Lys	Phe Ala	Thr His	His Phe	Trp 25	10 Val	Gly	Phe	Pro	Leu 30	15 Leu	Ser
255 256 258 259 260 261 262 263 264	<21: <21: <400 Met 1 Pro	2> T: 3> 01 0> SI Ser Gly	YPE: RGANI EQUEN Ser Leu Val 35	PRT ISM: NCE: Cys Glu 20 Val	Homo 4 Asn 5 Lys	Phe Ala Met	Thr His Cys	His Phe Gly 40	Trp 25 Asn	10 Val Cys	Gly	Phe Val	Pro Val 45	Leu 30 Phe	15 Leu Ile	Ser Val
255 256 258 259 260 261 262 263 264	<21: <21: <400 Met 1 Pro	2> T: 3> 01 0> SI Ser Gly	YPE: RGANI EQUEN Ser Leu Val 35	PRT ISM: NCE: Cys Glu 20 Val	Homo 4 Asn 5 Lys	Phe Ala Met	Thr His Cys	His Phe Gly 40	Trp 25 Asn	10 Val Cys	Gly	Phe Val	Pro Val 45	Leu 30 Phe	15 Leu Ile	Ser Val
255 256 258 259 260 261 262 263 264 265 266	<212 <213 <400 Met 1 Pro Met Arg	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50	YPE: RGANI EQUEN Ser Leu Val 35 Glu	PRT ISM: NCE: Cys Glu 20 Val	Homo 4 Asn 5 Lys Ala Ser	Phe Ala Met Leu	Thr His Cys His 55	His Phe Gly 40 Ala	Trp 25 Asn Pro	10 Val Cys Met	Gly Ile Tyr	Phe Val Leu 60	Pro Val 45 Phe	Leu 30 Phe Leu	15 Leu Ile Cys	Ser Val Met
255 256 258 259 260 261 262 263 264 265 266	<212 <213 <400 Met 1 Pro Met Arg	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50	YPE: RGANI EQUEN Ser Leu Val 35 Glu	PRT ISM: NCE: Cys Glu 20 Val	Homo 4 Asn 5 Lys Ala Ser	Phe Ala Met Leu	Thr His Cys His 55	His Phe Gly 40 Ala	Trp 25 Asn Pro	10 Val Cys Met	Gly Ile Tyr	Phe Val Leu 60	Pro Val 45 Phe	Leu 30 Phe	15 Leu Ile Cys	Ser Val Met Ile
255 256 258 259 260 261 262 263 264 265 266 267 268	<21: <400 Met 1 Pro Met Arg Leu 65	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala	YPE: RGANI EQUEN Ser Leu Val 35 Glu Ala	PRT ISM: NCE: Cys Glu 20 Val Arg Ile	Homo 4 Asn 5 Lys Ala Ser Asp	Phe Ala Met Leu Leu 70	Thr His Cys His 55 Ala	His Phe Gly 40 Ala Leu	Trp 25 Asn Pro	10 Val Cys Met Thr	Gly Ile Tyr Ser 75	Phe Val Leu 60 Thr	Pro Val 45 Phe Met	Leu 30 Phe Leu Pro	15 Leu Ile Cys Lys	Ser Val Met Ile 80
255 256 258 259 260 261 262 263 264 265 266 267 268	<21: <400 Met 1 Pro Met Arg Leu 65	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala	YPE: RGANI EQUEI Ser Leu Val 35 Glu Ala	PRT ISM: NCE: Cys Glu 20 Val Arg Ile	Homo 4 Asn 5 Lys Ala Ser Asp	Phe Ala Met Leu Leu 70 Phe	Thr His Cys His 55 Ala Asp	His Phe Gly 40 Ala Leu Ser	Trp 25 Asn Pro Ser Arg	10 Val Cys Met Thr	Gly Ile Tyr Ser 75 Ile	Phe Val Leu 60 Thr	Pro Val 45 Phe Met	Leu 30 Phe Leu Pro Glu	15 Leu Ile Cys Lys Ala	Ser Val Met Ile 80
255 256 258 259 260 261 262 263 264 265 266 267 268 269 270	<21: <400 Met 1 Pro Met Arg Leu 65 Leu	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala	YPE: RGANI EQUEN Ser Leu Val 35 Glu Ala	PRT ISM: NCE: Cys Glu 20 Val Arg Ile	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85	Phe Ala Met Leu Leu 70 Phe	Thr His Cys His 55 Ala Asp	His Phe Gly 40 Ala Leu Ser	Trp 25 Asn Pro Ser Arg	10 Val Cys Met Thr Glu 90	Gly Ile Tyr Ser 75 Ile	Phe Val Leu 60 Thr	Pro Val 45 Phe Met	Leu 30 Phe Leu Pro Glu	15 Leu Ile Cys Lys Ala 95	Ser Val Met Ile 80 Cys
255 256 258 259 260 261 262 263 264 265 266 267 268 269 270	<21: <400 Met 1 Pro Met Arg Leu 65 Leu	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala	YPE: RGANI EQUEN Ser Leu Val 35 Glu Ala	PRT ISM: NCE: Cys Glu 20 Val Arg Ile	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85	Phe Ala Met Leu Leu 70 Phe	Thr His Cys His 55 Ala Asp	His Phe Gly 40 Ala Leu Ser	Trp 25 Asn Pro Ser Arg	10 Val Cys Met Thr Glu 90	Gly Ile Tyr Ser 75 Ile	Phe Val Leu 60 Thr	Pro Val 45 Phe Met	Leu 30 Phe Leu Pro Glu Glu	15 Leu Ile Cys Lys Ala 95	Ser Val Met Ile 80
255 256 258 259 260 261 262 263 264 265 267 268 269 270 271 272	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala Ala	YPE: RGAN: RGAN: EQUEN Ser Leu Val 35 Glu Ala Leu Gln	PRT ISM: NCE: Cys Glu 20 Val Arg Ile Phe Met 100	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe	Phe Ala Met Leu 70 Phe	Thr His Cys His 55 Ala Asp	His Phe Gly 40 Ala Leu Ser	Trp 25 Asn Pro Ser Arg Ala 105	10 Val Cys Met Thr Glu 90 Leu	Gly Ile Tyr Ser 75 Ile Ser	Phe Val Leu 60 Thr Ser	Pro Val 45 Phe Met Ile	Leu 30 Phe Leu Pro Glu Glu 110	15 Leu Ile Cys Lys Ala 95 Ser	Ser Val Met Ile 80 Cys Thr
255 256 258 259 260 261 262 263 264 265 266 267 268 270 271 272 273	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala Ala	YPE: RGANI RGANI Ser Leu Val 35 Glu Ala Leu Gln Leu	PRT ISM: NCE: Cys Glu 20 Val Arg Ile Phe Met 100	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe	Phe Ala Met Leu 70 Phe	Thr His Cys His 55 Ala Asp	His Phe Gly 40 Ala Leu Ser His	Trp 25 Asn Pro Ser Arg Ala 105	10 Val Cys Met Thr Glu 90 Leu	Gly Ile Tyr Ser 75 Ile Ser	Phe Val Leu 60 Thr Ser	Pro Val 45 Phe Met Ile Ile	Leu 30 Phe Leu Pro Glu Glu	15 Leu Ile Cys Lys Ala 95 Ser	Ser Val Met Ile 80 Cys Thr
255 256 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu Ile	2> TY 3> Ol 0> SI Ser Gly Tyr Thr 50 Ala Ala Thr	YPE: RGANI RGANI Ser Leu Val 35 Glu Ala Leu Gln Leu 115	PRT ISM: CYS Glu 20 Val Arg Ile Phe Met 100 Ala	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe	Phe Ala Met Leu 70 Phe Phe Ala	Thr His Cys His 55 Ala Asp Ile	His Phe Gly 40 Ala Leu Ser His Asp	Trp 25 Asn Pro Ser Arg Ala 105 Arg	10 Val Cys Met Thr Glu 90 Leu	Gly Ile Tyr Ser 75 Ile Ser Val	Phe Val Leu 60 Thr Ser Ala Ala	Pro Val 45 Phe Met Ile Ile Ile 125	Leu 30 Phe Leu Pro Glu Glu 110 Cys	15 Leu Ile Cys Lys Ala 95 Ser His	Ser Val Met Ile 80 Cys Thr
255 256 258 259 260 261 262 263 264 265 266 267 270 271 272 273 274 275	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu Ile	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala Ala Thr Leu	YPE: RGANI RGANI Ser Leu Val 35 Glu Ala Leu Gln Leu 115	PRT ISM: CYS Glu 20 Val Arg Ile Phe Met 100 Ala	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe	Phe Ala Met Leu 70 Phe Phe Ala	Thr His Cys His 55 Ala Asp Ile Phe Leu	His Phe Gly 40 Ala Leu Ser His Asp	Trp 25 Asn Pro Ser Arg Ala 105 Arg	10 Val Cys Met Thr Glu 90 Leu	Gly Ile Tyr Ser 75 Ile Ser Val	Phe Val Leu 60 Thr Ser Ala Ala Thr	Pro Val 45 Phe Met Ile Ile Ile 125	Leu 30 Phe Leu Pro Glu Glu 110 Cys	15 Leu Ile Cys Lys Ala 95 Ser His	Ser Val Met Ile 80 Cys Thr
255 256 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 276	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu Ile Leu	2> TY 3> Old 5> Si Ser Gly Tyr Thr 50 Ala Ala Thr Leu Arg 130	YPE: RGANI REQUENT Ser Leu Val 35 Glu Ala Leu Gln Leu 115 His	PRT ISM: NCE: Cys Glu 20 Val Arg Ile Phe Met 100 Ala	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe Met	Phe Ala Met Leu 70 Phe Phe Ala Val	Thr His Cys His 55 Ala Asp Ile Phe Leu 135	His Phe Gly 40 Ala Leu Ser His Asp 120 Asn	Trp 25 Asn Pro Ser Arg Ala 105 Arg	10 Val Cys Met Thr Glu 90 Leu Tyr	Gly Ile Tyr Ser 75 Ile Ser Val	Phe Val Leu 60 Thr Ser Ala Ala Thr 140	Pro Val 45 Phe Met Ile Ile 125 Ala	Leu 30 Phe Leu Pro Glu Glu 110 Cys Gln	15 Leu Ile Cys Lys Ala 95 Ser His Ile	Ser Val Met Ile 80 Cys Thr Pro Gly
255 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 276	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Leu Ile Leu Ile	2> TY 3> Old 5> Si Ser Gly Tyr Thr 50 Ala Ala Thr Leu Arg 130	YPE: RGANI REQUENT Ser Leu Val 35 Glu Ala Leu Gln Leu 115 His	PRT ISM: NCE: Cys Glu 20 Val Arg Ile Phe Met 100 Ala	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe Met	Phe Ala Met Leu 70 Phe Ala Val Arg	Thr His Cys His 55 Ala Asp Ile Phe Leu 135	His Phe Gly 40 Ala Leu Ser His Asp 120 Asn	Trp 25 Asn Pro Ser Arg Ala 105 Arg	10 Val Cys Met Thr Glu 90 Leu Tyr	Gly Ile Tyr Ser 75 Ile Ser Val Val Phe	Phe Val Leu 60 Thr Ser Ala Ala Thr 140	Pro Val 45 Phe Met Ile Ile 125 Ala	Leu 30 Phe Leu Pro Glu Glu 110 Cys Gln	15 Leu Ile Cys Lys Ala 95 Ser His Ile	Ser Val Met Ile 80 Cys Thr Pro Gly Leu
255 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 276 277 278	<21: <400 Met 1 Pro Met Arg Leu 65 Leu Ile Leu Ile 145	2> TY 3> OI 0> SI Ser Gly Tyr Thr 50 Ala Ala Thr Leu Arg 130 Val	YPE: RGAN: RGAN: Ser Leu Val 35 Glu Ala Leu Gln Leu 115 His	PRT ISM: CYS Glu 20 Val Arg Ile Phe Met 100 Ala Ala	Homo 4 Asn 5 Lys Ala Ser Asp Trp 85 Phe Met Ala	Phe Ala Met Leu 70 Phe Ala Val Arg 150	Thr His Cys His 55 Ala Asp Ile Phe Leu 135 Gly	His Phe Gly 40 Ala Leu Ser His Asp 120 Asn Ser	Trp 25 Asn Pro Ser Arg Ala 105 Arg Asn Leu	10 Val Cys Met Thr Glu 90 Leu Tyr Thr	Gly Ile Tyr Ser 75 Ile Ser Val Val Phe 155	Phe Val Leu 60 Thr Ser Ala Ala Thr 140 Phe	Pro Val 45 Phe Met Ile Ile 125 Ala Pro	Leu 30 Phe Leu Pro Glu Glu 110 Cys Gln	15 Leu Ile Cys Lys Ala 95 Ser His Ile Pro	Ser Val Met Ile 80 Cys Thr Pro Gly Leu 160

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/017,066A

DATE: 06/06/2002 TIME: 14:37:39

Input Set : D:\51158-20024.txt

Output Set: N:\CRF3\06062002\J017066A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:41; N Pos. 6,12,15 Seq#:42; N Pos. 3,6,12,15 Seq#:43; N Pos. 12,15 Seq#:44; N Pos. 3,12,15 Seq#:45; N Pos. 3,9,18 Seq#:46; N Pos. 3,9 Seq#:47; N Pos. 6,9,21 Seq#:48; N Pos. 1,13,16 Seq#:49; N Pos. 1,7,10,16 Seq#:50; N Pos. 10,16,19